AMENDMENTS TO THE CLAIMS

This listing of claim will replace all prior versions and listings of claim in the application.

1. (original) A method for use by a switch in a storage network, the method

comprising:

receiving, by the switch, a solicitation for a storage service from a device in the storage network;

performing, by the switch, the storage service without further involvement from the device,

including transmitting any data required to be transmitted as a result of performing the storage

service without buffering the data.

2. (original) The method of claim 1, wherein performing the storage service further

includes performing virtualization of the data without buffering the data.

3. (original) The method of claim 1, wherein performing the storage service further

includes performing translation of the data from a first protocol to a second protocol without

buffering the data.

4. (original) The method of claim 3, wherein the first protocol is iSCSI and the

second protocol is Fiber Channel.

5. (original) The method of claim 3, wherein the first protocol is Fiber Channel and

the second protocol is iSCSI.

6. (original) The method of claim 1, wherein the storage service is one of local

mirroring, mirroring over slow link, snapshot, replication, third party copy, periodic backup, and

restore.

7. (original) The method of claim 1, wherein:

receiving the solicitation includes receiving the solicitation by a control card in the

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switch:

performing the storage service includes, determining by the control card which one or

more of a plurality of linecards in the switch is required to perform the service, passing relevant

information from the control card to the determined linecard, and performing the storage service

by and under control of the determined linecard.

8. (original) The method of claim 1, further including:

indicating that the storage service is complete by the switch to the device.

9. (original) The method of claim 1, wherein the device is a server.

10. (original) The method of claim 1, wherein the device is a management station.

11. (original) The method of claim 1, wherein:

receiving a solicitation includes receiving, by the switch, a mirroring solicitation for a

virtual target from the device; and

performing the storage service includes:

setting a flowID for the virtual target that indicates a mirrored virtual target having a first

member and a second member;

receiving a data write command from an initiator to the mirrored virtual target;

multicasting the data write command to both members in accordance with the flowID;

receiving a ready-to-receive-data indicator from each member, wherein each member

specifies an amount of data it can receive, the first member specifying a first amount and the

second member specifying a second amount smaller than the first amount;

obtaining from the initiator the second amount of data, performing virtualization on the

data without buffering the data, and transmitting the data to the first member and the second

member.

12. (original) The method of claim 11, wherein setting a flowID for the virtual target

includes updating a virtual target descriptor with the flowID.

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13. - 20. (withdrawn)

21. (original) A method for use by a switch in a storage network, the method

comprising:

receiving, by the switch, a mirroring solicitation for a virtual target from a device in the storage

network;

setting, by the switch, a flowID for the virtual target that indicates a mirrored virtual

target having a first member and a second member;

receiving, by the switch, data to be written to the mirrored virtual target;

multicasting, by the switch, without buffering, the data to both members for writing in

accordance with the flowID.

22. (original) The method of claim 21, wherein multicasting the data write command

includes adding the flowID to the data write command.

23. (original) The method of claim 21, wherein:

the first member is a local member with respect to the switch and the second member is a remote

member with respect to the switch; and

multicasting the data includes sending the data to the first member for writing, reading the data

from the first member, and sending the read data to the remote member for writing.

24. (original) The method of claim 23, wherein:

the second member is in communication with the switch over a link that is slow relative

to a link between the switch and the first member; and

multicasting the data includes sending the data to the first member for writing, reading the

data from the first member, and sending the read data to the second member for writing.

25. (original) A method for use by a switch in a storage network, the method

comprising:

receiving, by the switch, a mirroring solicitation for a virtual target from a device in the

storage network;

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setting, by the switch, a flowID for the virtual target that indicates a mirrored virtual

target having a first member and a second member;

receiving, by the switch, a data write command from an initiator to the mirrored virtual

target;

multicasting, by the switch, the data write command to both members in accordance with

the flowID;

receiving, by the switch, a ready-to-receive-data indicator from each member, wherein

each member specifies an amount of data it can receive, the first member specifying a first

amount and the second member specifying a second amount smaller than the first amount;

obtaining, by the switch, from the initiator the second amount of data, performing

virtualization of the data without buffering, and transmitting the second amount of data as write

data to the first member and the second member.

26. (original) The method of claim 25, wherein multicasting the data write command

includes adding the flowID to the data write command.

27. - 40. (withdrawn).

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